Selection and application guide

For residential and commercial generators

Standby power systems

www.usa.siemens.com/generators

SIEMENS

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Industry leading system controls

NEXUS controller for air cooled generators

Type "N" Nexus Digital LCD Controller
Functions include monitoring utility power, triggering the automatic transfer switch, starting and stopping the generator, exercising the generator, and monitoring the generator for any system faults.

- **Expanded event log capability**
  Records up to 50 events within the controller on ALL units
- **NEW High Voltage Shutdown**
  Shuts down the generator at >130% rated voltage for 200 milliseconds or >110% for 5 seconds to better protect home owner appliances or connected items
- **NEW Low Voltage Shutdown**
  Shuts down the generator at <60% voltage for 5 seconds to better protect home owner appliances or connected items
- **NEW Internal Fault Shutdown**
  Shuts down the generator when a failure is detected within the Nexus Controller for more protection and easier diagnostics
- **NEW Battery Sentinel**
  Monitors the battery and charging system to indicate that the battery is trending towards failure or that it has failed
- **50 event log**
  All generators 8-20 kW feature a full event log capable of recording up to 50 events
- **NEW Smart Battery Charger**
  Only delivers a charge to the battery when needed - Varies battery charge depending on ambient air temperature to increase or decrease charge depending on the temperature
- **NEW Improved Voltage Regulation**
  With the combination into the Nexus Controller, the improved voltage regulation delivers an industry leading voltage regulation +/- 1%
- **NEW Product Activation**
  Requires each generator to be activated via website or phone before automatic function is enabled - Allows a warranty activation start point for every generator sold.
- **NEW External Common Fault Alarm**
  The Nexus Controller has a provision to connect to a set of contacts that will allow for a common alarm when any of the generator shut downs occur- This will allow individuals to connect into security systems, home automation systems or simply drive a different alarm within a home or business
- **Adjustable generator start time**
  When utility fails, the control is factory set to delay 10 seconds prior to starting the engine. There is also the capability to change the delay time between 10-30 seconds
- **Incorrect Wiring Error**
  Eliminates the potential of damaging the Nexus Controller if it is not connected properly, a warning message is displayed that must be corrected before the controller is allowed to be fully operational

Display	Alarms	Service features	Key miscellaneous
LCD display and keypad①	Generator high voltage	Battery sentinel	Battery charger
Remote maintenance LEDs	Generator low voltage	Maintenance scheduling	Product activation
Time and date	Over frequency①	50 event log expanded to all models	Voltage regulator
Alarm log	Underspeed / fail to transfer		Wireless ready
Run log	Low battery voltage		
Set exercise via display	High engine temp		
Engine hour display	Low oil pressure		
Version display①	Internal governor failure①		
RPM display	Overcrank		
Command display①	Overspeed		
Frequency display	RPM sensor loss		
Battery voltage display	Internal fault		
Battery current display①	Low fuel pressure		
Tri-lingual display	Wiring error		
De-bug screens①	External common fault alarm		
Hours under load①			
Gimbal mounted①			

NEXUS controller for liquid cooled generators

① **Liquid cooled model only**

Generator features

Natural gas/liquid propane fuel setup

The 8 - 48 kW units ship from the factory ready for use with natural gas. The conversion to propane is as simple as flipping a switch on 10, 14, 17, and 20kW units. Remove the air filter cover and pull out the rod to convert to propane. 8kw and 22-48kW models require a few additional conversion steps referenced in the owners manual.

Natural Gas - pin in

Liquid Propane - pin out

Exhaust enclosure

Verify spacing with local code and inspector, prior to installation. Typically, the generator must be placed away from any opening in the house due to exhaust regulations from NFPA guidelines.

Wind resistant housing

150 MPH wind resistant design on both steel and aluminum units, ASCE 7 Standards. Electrostatically applied textured epoxy paint for added durability.

Composite base

Air cooled units are provided with composite mounting pad. Liquid cooled units require a concrete slab.

Oil dipstick, low oil switch, high temperature switch, oil filter, oil drain hose

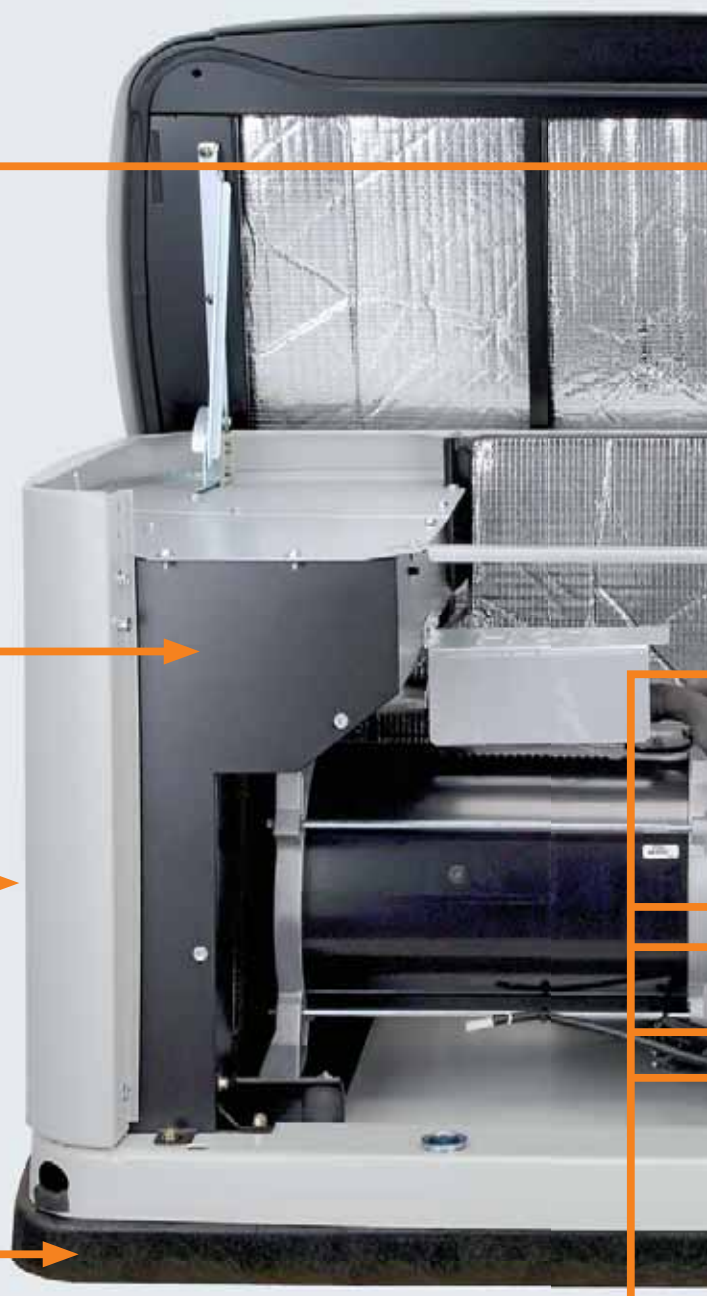
Break in periods are not required on Siemens standby generators to initiate the warranty, but are recommended.

Snap-in cover plate

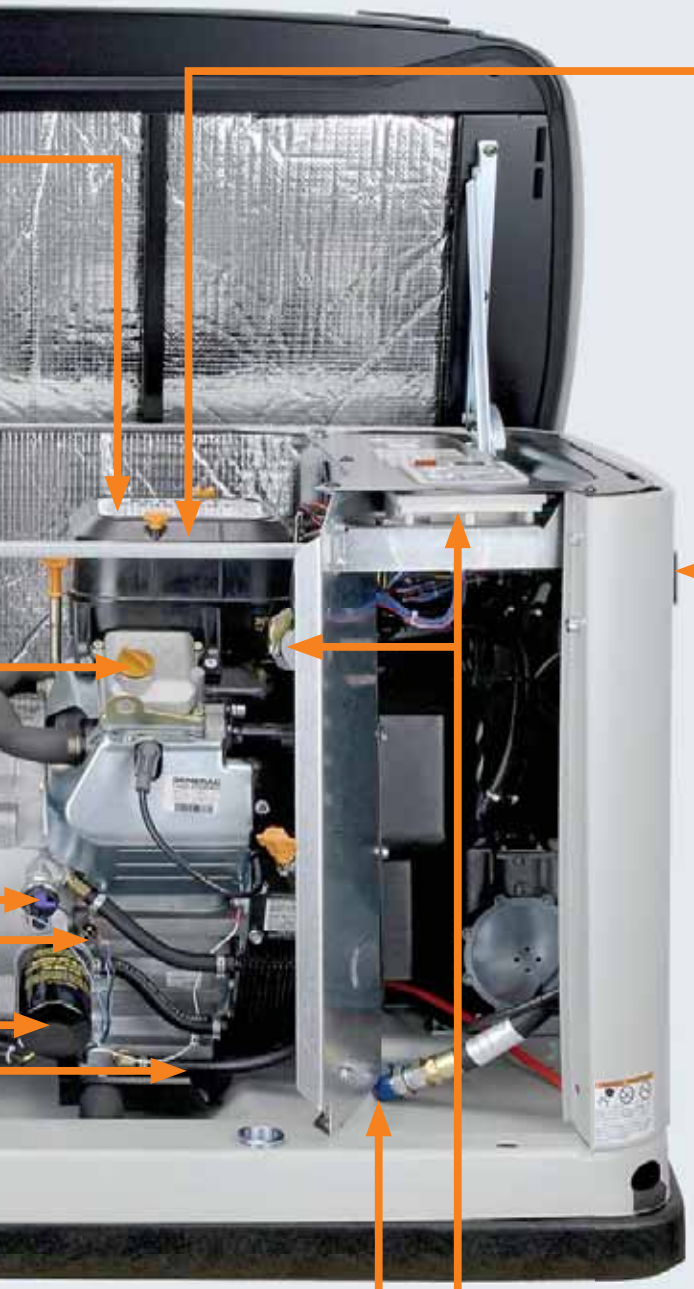
Easy access for remote wireless monitor. Refer to page 22 for monitor offering.

Fuel line connection

A section of UL or AGA approved flexible fuel line is required to protect the rigid fuel line connections against generator vibration. 1' flexible fuel line connector is included.



Generator back view



Air filter

Prolong the life of your engine through routine maintenance and ensure warranty requirements are met.

Maintenance is recommended annually or every 200 hours.

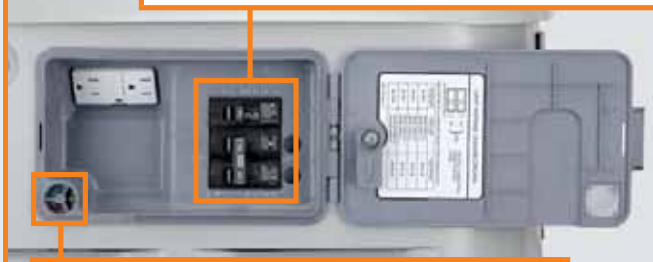
Refer to page 21 for maintenance kit offerings.

External breaker connections

180° swing door capability and prop rod allows full range of motion for ease of access during installation as well as servicing on 80-20 kW units.

External mainline circuit breaker

Power shutdown eliminates the need to open the enclosure. Meets fire marshall code.



Three LED indicator lights included on all models

- Green = Generator OK
- Yellow = Maintenance needed
- Red = Contact dealer

Control panel

Nexus controller functions include monitoring utility power, triggering the automatic transfer switch, starting and stopping the generator, exercising the generator, and monitoring the generator for any system faults. Combines the voltage regulator, engine control board and battery charger into one single item - Brings more functionality to the generator control for a smarter power solution

Product Activation is required on all Nexus Controlled Models 8-150kW to engage automatic transfer mode. Generator will operate in manual mode until activation code is entered
Easy, one-time activation process can be completed in shop or on-site.

Data label is located inside the generator. Serial number is required for generator activation.

Battery compartment

Batteries are not included with 8-60kW units and must be purchased separately.
The recommended battery for 8-45kW and 60kW models is a 26 frame battery capable of 525-550cca. Refer to page 23 for 26R battery. The recommended battery for a 48kW model is a Group 24F 525cca, 12V battery.

Catalog Logic

Easy order selection guide

Standby power generators		kW ratings[5]	Voltage R = 120/240V, 1Ø C = 120/208V, 3Ø J = 120/240V, 3Ø I = 277/480V, 3Ø	Fuel G = Natural Gas P = Liquid propane vapor B = Accepts both	Enclosure S = Steel A = Aluminum	Speed Blank = 3600 RPM L = 1800 RPM T = Turbo Charge[2]	Emissions E = Catalyst[3]
Air cooled	ASGN	8	R	B	S		
		10	R	B	S		
		14	R	B	S		
		17	R	B	S, A		
		20	R	B	A		
Liquid cooled	SGN	22	R, C, J	B	A	L	
		25	R, C, J	B	S		
		27	R, C, J	B	A	L	
		30	R, C, J	B	S		
		36	R, C, J, I	B	A	L	
		45	R, C, J, I	B	S		E
		48	R, C, J, I	B	A	L	E
		60	R, C, J, I	G, P	S, A	T	
		70	R, C, J, I	G, P	A	L	E
		80	R, C, J, I	G, P	A		
		100	R, C, J, I	G, P	A	L[1]	E
		130	R, C, J, I	G, P	A		E
		150	R, C, J, I	G, P	A		E
Transfer Switches **ST =** Indoor Branch Circuit **SL =** Outdoor LoadShedding		**Amperage**	**Voltage** **R =** 120/240V, 1Ø **C =** 120/208V, 3Ø **J =** 120/240V, 3Ø **I =** 277/480V, 3Ø	**Service disconnect** **Blank =** No **D =** Yes	**Branch circuits**		
ST		100	R		10C, 12C, 14C, 16C		
SL		100, 150, 200, 400, 600, 800	R, C, J, I	Blank, D[4]			

① **2300 RPM**
② **3600 RPM**
③ **Catalyst option on 45, 48, and 70kW models. Catalyst factory installed on 100-130kW models. Catalyst meets CARB/EPA requirements for CA and MA. 36, 60, and 80kW models do not meet CARB/EPA requirements for CA and MA.**
④ **Disconnect only available on 100, 150, 200, and 400A SL single phase transfer switches.**
⑤ **Battery not included with 8-60kW. Refer to page 23 for 26R battery. The recommended battery for a 48kW model is a Group 24F 525cca, 12V battery.**

Air cooled standby generators

8, 10, 14, 17, 20kW, 120/240V single phase

Standard features

- UL 2200 Listed
- Four-cycle industrial engines provide durable, reliable, long life
- Operate on either natural gas or propane vapor①
- Composite mounting pad approved to eliminate need to pour concrete pad②
- Automatic high temperature, low oil pressure, over speed, and over crank shut down
- Low battery voltage indicator
- Standard safety fuse
- Provided with Type "N" Nexus controller

Typical load requirements③

Description	kW
Electric Heat per 1,000 ft.²	12.0
Heat Pump Elements per 1,000 ft.²	7.0
Dryer	5.5
Hot Tub	5.0
Range Oven	5.0
Hot Water Heater	4.5
Stove Top Burner	1.5
General Receptacles per 1,000 ft.²	1.0
Dishwasher	1.5
Blow Dryer	1.3
AC (per ton)	1.0
Microwave	1.0
Toasters	1.0
Lighting per 1,000 ft.²	0.8

Generators shown on this page are ideal for smaller single family residential constructions, or partial loads on larger residential constructions. These panels can help support critical loads most required when power is interrupted.

Compatible transfer switches
ST100R10C④
ST100R12C④
ST100R14C④
ST100R16C④
SL100R
SL100RD
SL150RD
SL200R
SL200RD
SL200RDPM
SL400R
SL400RD

Catalog no.	kW rating⑤	Fuel①	Enclosure	Engine size	Weight (lbs.)	Dimensions (in.)
ASGN008RBS	8	Both	Steel	410CC	340	48 x 25 x 29
ASGN010RBS	10	Both	Steel	530CC	387	
ASGN014RBS	14	Both	Steel	992CC	439	
ASGN017RBS	17	Both	Steel	992CC	455	
ASGN017RBA			Aluminum	992CC	421	
ASGN020RBA	20	Both	Aluminum	999CC	451	

① Product ships ready for natural gas. Minor adjustments required for liquid propane vapor use. See owners manual.
② Check local code requirements.
③ Estimated averages. Actual requirements vary by brand, model, size and other factors.
④ ST type transfer switches recommended with 8-17kW.
⑤ Battery not included with air cooled models 8-20kw. Refer to page 23 for 26R battery.

Liquid cooled standby generators

1800, 2300, and 3600 RPM, 120/240V 1-phase

Standard features

- UL 2200 Listed
- Meets EPA Emission Regulations
- Operate on either natural gas or propane vapor①
- Automatic high temperature, low coolant, low oil pressure, and over speed shutdown
- Automatic voltage regulator with over voltage protection
- Isochronous Electronic Governor
- Safety fuse included
- Smart Battery Charger
- Quiet run weekly self test
- Provided with Type "N" Nexus controller

Catalog no.	kW rating③	Fuel	Enclosure	Engine size	Speed	Weight (lbs.)	Dimensions (in.)
SGN022RBAL	22	Both①	Aluminum	2.4 L	1800 RPM	843	62.2 x 29 x 33.5
SGN025RBS	25	Both①	Steel	1.6 L	3600 RPM	875	62.2 x 29 x 33.5
SGN027RBAL	27	Both①	Aluminum	2.4 L	1800 RPM	891	62.2 x 29 x 33.5
SGN030RBS	30	Both①	Steel	1.6 L	3600 RPM	935	62.2 x 29 x 33.5
SGN036RBAL	36	Both①	Aluminum	2.4 L	1800 RPM	1271	76.8 x 33.5 x 45.1
SGN045RBS	45	Both①	Steel	2.4 L	3600 RPM	1414	76.8 x 33.5 x 45.1
SGN045RBSE②							
SGN048RBAL	48	Both①	Aluminum	4.2 L	1800 RPM	1360	76.8 x 33.5 x 45.1
SGN048RBALE ②							
SGN060RGST	60	Natural gas	Steel	2.4 L	3600 RPM	1441	89 x 34 x 48
SGN060RPST		Liquid propane					
SGN060RGAT		Natural gas	Aluminum	3.0 L	3600 RPM	1324	
SGN060RPAT		Liquid propane					
SGN070RGAL	70	Natural gas	Aluminum	6.8 L	1800 RPM	2040	97 x 37 x 47
SGN070RPAL		Liquid propane					
SGN070RGALE②		Natural gas					
SGN070RPALE②		Liquid propane					

① Product ships ready for natural gas. Minor adjustments required for liquid propane vapor use. See owners manual.
② Catalyst factory Installed to meet CARB/EPA requirements for California and Massachusetts.
③ Battery not included on liquid cooled models 22-60kW.Refer to page 23 for 26R battery.

Liquid cooled standby generators

2300 and 3600 RPM, 120/240V 1-phase (cont.)

45 and 60 kW generators are ideal for most commercial applications including small office buildings, churches, retail centers, schools, and restaurants. Being light weight makes them appropriate for roof mounting.

25 and 30 kW generators are ideal for whole house back up for larger home and small businesses.

Catalog no.	kW rating	Fuel	Enclosure	Engine size	Speed	Weight (lbs.)	Dimensions (in.)
SGN080RGA	80	Natural gas	Aluminum	4.6 L	3600 RPM	2075	116 x 37 x 55
SGN080RPA		Liquid propane					
SGN100RGALE	100②	Natural gas	Aluminum	6.8 L	2300 RPM	1148	116 x 37 x 55
SGN100RPALE		Liquid propane					
SGN130RGAE	130②	Natural gas	Aluminum	6.8 L	3600 RPM	2699	116 x 37 x 55
SGN130RPAE		Liquid propane					
SGN150RGAE	150②	Natural gas	Aluminum	6.8 L	3600 RPM	2492	116 x 37 x 55
SGN150RPAE		Liquid propane					

Compatible transfer switches
SL100R
SL100RD
SL150RD
SL200R
SL200RD
SL200RDPM①
SL400R
SL400RD
SL600R
SL800R

① Compatible with generators up to 48 kW.
② Catalyst factory Installed to meet CARB/EPA requirements for California and Massachusetts.

Liquid cooled standby generators

1800, 2300 and 3600 RPM, 120/208V 3-phase

Standard features

- UL 2200 Listed
- Meets EPA Emissions Regulations
- Operate on either natural gas or propane vapor①
- Automatic high temperature, low coolant, low oil pressure, and over speed shutdown
- Automatic voltage regulator with over voltage protection
- Isochronous Electronic Governor
- Safety fuse included
- Smart Battery Charger
- Quiet run weekly self test
- Compatible with "SL" Type automatic transfer switches
- Provided with Type "N" Nexus controller

Catalog no.	kW rating③	Fuel	Enclosure	Engine size	Speed	Weight (lbs.)	Dimensions (in.)
SGN022CBAL	22	Both①	Aluminum	2.4 L	1800 RPM	843	62.2 x 29 x 33.5
SGN025CBS	25	Both①	Steel	1.6 L	3600 RPM	875	62.2 x 29 x 33.5
SGN027CBAL	27	Both①	Aluminum	2.4 L	1800 RPM	891	62.2 x 29 x 33.5
SGN030CBS	30	Both①	Steel	1.6 L	3600 RPM	935	62.2 x 29 x 33.5
SGN036CBAL	36	Both①	Aluminum	2.4 L	1800 RPM	1271	76.8 x 33.5 x 45.1
SGN045CBS	45	Both①	Steel	2.4 L	3600 RPM	1414	76.8 x 33.5 x 45.1
SGN045CBSE②							
SGN048CBAL	48	Both①	Aluminum	4.2 L	1800 RPM	1360	76.8 x 33.5 x 45.1
SGN048CBALE②							
SGN060CGST	60	Natural gas	Steel	2.4 L	3600 RPM	1441	77 x 34 x 46
SGN060CPST		Liquid propane					
SGN060CGAT		Natural gas	Aluminum	2.4 L	3600 RPM	1324	
SGN060CPAT		Liquid propane					
SGN070CGAL	70	Natural gas	Aluminum	6.8 L	1800 RPM	2040	97 x 37 x 47
SGN070CPAL		Liquid propane					
SGN070CGALE②		Natural gas	Aluminum	6.8 L	1800 RPM	2040	
SGN070CPALE②		Liquid propane					

① Product ships ready for natural gas. Minor adjustments required for liquid propane vapor use. See owners manual.
② Catalyst factory Installed to meet CARB/EPA requirements for California and Massachusetts.
③ Battery not included on liquid cooled models 22-60kW.Refer to page 23 for 26R battery.

Liquid cooled standby generators

1800, 2300 and 3600 RPM, 120/208V 3-phase (cont.)

25 and 30 kW generators are ideal for whole house back up for larger home and small businesses.

45 and 60 kW generators are ideal for most commercial applications including small office buildings, churches, retail centers, schools, and restaurants. Being light weight makes them appropriate for roof mounting.

Catalog no.	kW rating	Fuel	Enclosure	Engine size	Speed	Weight (lbs.)	Dimensions (in.)
SGN080CGA	80	Natural gas	Aluminum	4.6 L	3600 RPM	2249	116 x 37 x 55
SGN080CPA		Liquid propane					
SGN100CGALE	100①	Natural gas	Aluminum	6.8 L	2300 RPM	2705	116 x 37 x 55
SGN100CPALE		Liquid propane					
SGN130CGAE	130①	Natural gas	Aluminum	6.8 L	3600 RPM	2837	116 x 37 x 55
SGN130CPAE		Liquid propane					
SGN150CGAE	150①	Natural gas	Aluminum	6.8 L	3600 RPM	2666	116 x 37 x 55
SGN150CPAE		Liquid propane					

Compatible transfer switches
SL100C
SL200C
SL400C
SL600C
SL800C

① Catalyst factory Installed to meet CARB/EPA requirements for California and Massachusetts.

Liquid cooled standby generators

1800, 2300 and 3600 RPM, 120/240V 3-phase

Catalog no.	kW rating③	Fuel	Enclosure	Engine size	Speed	Weight (lbs.)	Dimensions (in.)
SGN022JBAL	22	Both①	Aluminum	2.4 L	1800 RPM	843	62.2 x 29 x 33.5
SGN025JBS	25	Both①	Steel	1.6 L	3600 RPM	875	62.2 x 29 x 33.5
SGN027JBAL	27	Both①	Aluminum	2.4 L	1800 RPM	891	62.2 x 29 x 33.5
SGN030JBS	30	Both①	Steel	1.6 L	3600 RPM	935	62.2 x 29 x 33.5
SGN036JBAL	36	Both①	Aluminum	2.4 L	1800 RPM	1271	76.8 x 33.5 x 45.1
SGN045JBS	45	Both①	Steel	2.4 L	3600 RPM	1414	76.8 x 33.5 x 45.1
SGN045JBSE②							
SGN048JBAL	48	Both①	Aluminum	4.2 L	1800 RPM	1360	76.8 x 33.5 x 45.1
SGN048JBALE②							
SGN060JGST	60	Natural gas	Steel	2.4 L	3600 RPM	1441	77 x 34 x 46
SGN060JPST		Liquid propane					
SGN060JGAT		Natural gas	Aluminum	2.4 L	3600 RPM	1324	
SGN060JPAT		Liquid propane					
SGN070JGAL	70	Natural gas	Aluminum	6.8 L	1800 RPM	2040	97 x 37 x 47
SGN070JPAL		Liquid propane					
SGN070JGALE②		Natural gas	Aluminum	6.8 L	1800 RPM	2040	
SGN070JPALE②		Liquid propane					

① Product ships ready for natural gas. Minor adjustments required for liquid propane vapor use. See owners manual.
② Catalyst factory Installed to meet CARB/EPA requirements for California and Massachusetts.
③ Battery not included on liquid cooled models 22-60kW.Refer to page 23 for 26R battery.

Liquid cooled standby generators

1800, 2300 and 3600 RPM, 120/240V 3-phase (cont.)

45 and 60 kW generators are ideal for most commercial applications including small office buildings, churches, retail centers, schools, and restaurants. Being light weight makes them appropriate for roof mounting.

Catalog no.	kW rating	Fuel	Enclosure	Engine size	Speed	Weight (lbs.)	Dimensions (in.)
SGN080JGA	80	Natural gas	Aluminum	4.6 L	3600 RPM	2075	116 x 37 x 55
SGN080JPA		Liquid propane					
SGN100JGALE	100①	Natural gas	Aluminum	6.8 L	2300 RPM	1148	116 x 37 x 55
SGN100JPALE		Liquid propane					
SGN130JGAE	130①	Natural gas	Aluminum	6.8 L	3600 RPM	2699	116 x 37 x 55
SGN130JPAE		Liquid propane					
SGN150JGAE	150①	Natural gas	Aluminum	6.8 L	3600 RPM	2492	116 x 37 x 55
SGN150JPAE		Liquid propane					

Compatible transfer switches
SL100J
SL200J
SL400J
SL600J
SL800J

① Catalyst factory Installed to meet CARB/EPA requirements for California and Massachusetts.

Liquid cooled standby generators

1800, 2300, and 3600 RPM, 277/480V 3-phase

Catalog no.	kW rating③	Fuel	Enclosure	Engine size	Speed	Weight (lbs.)	Dimensions (in.)
SGN036IBAL	36	Both①	Aluminum	2.4 L	1800 RPM	1271	76.8 x 33.5 x 45.1
SGN045IBS	45	Both①	Steel		3600 RPM	1414	76.8 x 33.5 x 45.1
SGN045IBSE②							
SGN048IBAL	48	Both①	Aluminum	4.2 L	1800 RPM	1360	76.8 x 33.5 x 45.1
SGN048IBALE②							
SGN060IGST	60	Natural gas	Steel	2.4 L	3600 RPM	1441	77 x 34 x 46
SGN060IPST		Liquid propane					
SGN060IGAT		Natural gas	Aluminum	2.4 L	3600 RPM	1324	
SGN060IPAT		Liquid propane					
SGN070IGAL	70	Natural gas	Aluminum	6.8 L	1800 RPM	2040	97 x 37 x 47
SGN070IPAL		Liquid propane					
SGN070IGALE②		Natural gas	Aluminum	6.8 L	1800 RPM	2040	
SGN070IPALE②		Liquid propane					
SGN080IGA	80	Natural gas	Aluminum	4.6 L	3600 RPM	2075	116 x 37 x 55
SGN080IPA		Liquid propane					

① Product ships ready for natural gas. Minor adjustments required for liquid propane vapor use. See owners manual.
② Catalyst factory Installed to meet CARB/EPA requirements for California and Massachusetts.
③ Battery not included on liquid cooled models 22-60kW.Refer to page 23 for 26R battery.

Liquid cooled standby generators

1800, 2300, and 3600 RPM, 277/480V 3-phase (cont.)

130 kW and 150 kW generators are ideal for large commercial applications requiring sophisticated monitoring.

Their high power output makes them ideal for senior living centers, supermarkets, movie theaters, pumping stations, and strip malls.

Catalog no.	kW rating	Fuel	Enclosure	Engine size	Speed	Weight (lbs.)	Dimensions (in.)
SGN100IGALE	100①	Natural gas	Aluminum	6.8 L	2300 RPM	1148	116 x 37 x 55
SGN100IPALE		Liquid propane					
SGN130IGAE	130①	Natural gas	Aluminum	6.8 L	3600 RPM	2699	116 x 37 x 55
SGN130IPAE		Liquid propane					
SGN150IGAE	150①	Natural gas	Aluminum	6.8 L	3600 RPM	2492	116 x 37 x 55
SGN150IPAE		Liquid propane					

Compatible transfer switches
SL100I
SL200I
SL400I
SL600I
SL800I

① Catalyst factory Installed to meet CARB/EPA requirements for California and Massachusetts.

ST Type Transfer Switches

100A, 120/240V, 1-Phase, NEMA 1 Indoor, 10k AIC

Features and ratings

- 30 ft. pre-wired conduit for connecting the transfer switch to the external connection box
- 2 ft. pre-wired conduit for moving circuits from the main panel to the transfer switch
- Pre-wired external connection box with a weatherproof conduit for generator connections
- Compatible with Nexus controllers
- Electrically operated, mechanically contacts for fast, positive connections
- Rated for all classes of load, 100% equipment rated, both inductive and resistive
- 2 pole, 250 VAC contactors
- Open transition
- 160 millisecond transfer time
- Express install kit included
- Dual coil design
- Main contacts are silver plated or silver alloy to resist welding and sticking
- ***Suitable for use only on air cooled products (8–17 kW)***

Catalog no.	Amp	Branch circuits	Weight (lbs)	Dimensions (in.)
ST100R10C	100	10	57	27 x 13 x 7
ST100R12C		12	60.8	
ST100R14C		14	64	
ST100R16C		16	68	

"ST" Type automatic transfer switches
"ST" type transfer switches, denoted in the catalog number starting with "ST", are compatible with the Nexus controller. The Nexus controller senses power outages and initiates the transfer of power to the generator via the automatic transfer switch.

Transfer switch with back up circuits
Siemens offers 4 models of automatic transfer switches with back up circuits. These panels provide transfer capability to a select number of critical circuits, as opposed to the entire house. For the chosen critical circuits, the conductors in the main house panel are removed from the breaker and connected with wire nuts to the prewired conductors on the transfer switch.

SL Type Transfer Switches

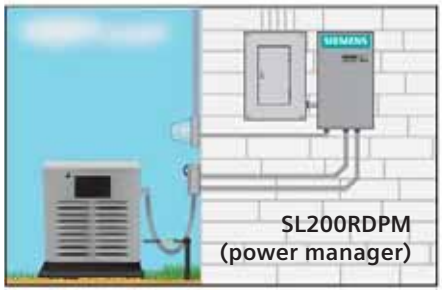
"SL" Type transfer switches
Transfer switches provide the mechanism for transferring power between utility and generator service. Engineered with Digital Load Management (DLM) technology, 100-400A single phase SL Type transfer switches have the ability to cycle on and off two air conditioners without adding additional components, allowing for a smaller generator to cover more circuits than when paired with a standard transfer switch.

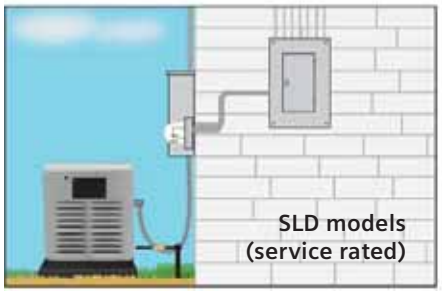
Features and ratings

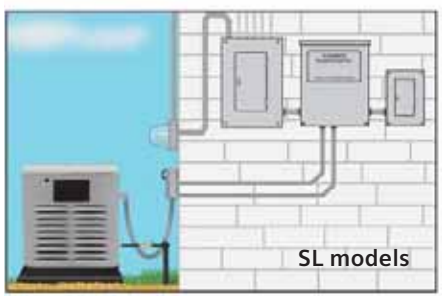
- 100–800A
- Outdoor NEMA 3R aluminum enclosure
- Open transition
- Compatible with Nexus controllers
- Cover more circuits with a smaller generator
- Service rated and non-service rated
- Add additional individual DLM modules (5937) and manage up to four more large loads on single phase SL type transfer switches
- Cover every circuit when paired with a higher kW generator

Catalog no.	Amp	Phase	Withstand rating (Amps)	Weight (lb.)	Dimensions (in.)
SL100R	100	120/240V, 1∅	10,000	20	20 x 14.6 x 7.09
SL100RD①				22.5	20 x 14.6 x 7.09
SL100C		120/208V, 3∅	10,000	20	24.1 x 20.2 x 7.1
SL100J		120/240V, 3∅	14,000	53	24.1 x 20.2 x 7.1
SL100I		277/480V, 3∅	14,000	105	36.1 x 24 x 10
SL150RD①	150	120/240V, 1∅	22,000	39	30 x 13.5 x 7.9
SL200R	200	120/240V, 1∅	22,000	20	20 x 14.6 x 7.09
SL200RD①				39	30 x 13.5 x 7.09
SL200C		120/208V, 3∅	10,000	20	24.1 x 20.2 x 7.1
SL200J		120/240V, 3∅	25,000	53	24.1 x 20.2 x 7.1
SL200I		277/480V, 3∅	25,000	105	48.1 x 30.1 x 13.1
SL200RDPM①		120/240V, 1∅	10,000	75	42 x 20 x 7.25
SL400R	400	120/240V, 1∅	18,000	133	48 x 21.82 x 10.06
SL400RD①			22,000	140	48 x 21.82 x 10.06
SL400C		120/208V, 3∅	18,000	133	36.1 x 24 x 10
SL400J		120/240V, 3∅	18,000	133	36.1 x 24 x 10
SL400I		277/480V, 3∅	18,000	133	36.1 x 24 x 10
SL600R	600	120/240V, 1∅	42,000	439	66 x 36 x 21
SL600C		120/208V, 3∅	42,000	439	66 x 36 x 21
SL600J		120/240V, 3∅	42,000	439	66 x 36 x 21
SL600I		277/480V, 3∅	42,000	439	66 x 36 x 21
SL800R	800	120/240V, 1∅	65,000	469	66 x 36 x 21
SL800C		120/208V, 3∅	65,000	469	66 x 36 x 21
SL800J		120/240V, 3∅	65,000	469	66 x 36 x 21
SL800I		277/480V, 3∅	65,000	469	66 x 36 x 21

① Disconnect included.







Power Manager transfer switch

Power Manager transfer switch
The Siemens "Power Manager" Transfer Switch is designed with a built-in 16 circuit load center, this Nexus compatible switch is the answer when more than six large loads need to be managed. Power Manager is a "SL" type transfer switch and is compatible with units 8-48kW

Catalog no.
SL200RDPM

Features and ratings

- Built-in 16 circuit priority load center
- Main contactor protects essential circuits
- Secondary contactor protects non-essential circuits
- NEMA 3R / outdoor enclosure
- Side-opening hinged cover
- Conforms to 2008 NEC sizing standards
- 200A, service entrance rated
- Dimensions (Inches) 42 x 20 x 7.25
- Interrupt rating: 10,000 AIC
- Weight: 75 lbs.

Generator Ready Load Center

The Siemens Generator Ready Load Center can save thousands of dollars in future generator installation expenses while keeping initial expenses to a minimum. Works with an automatic standby generator or a portable generator.

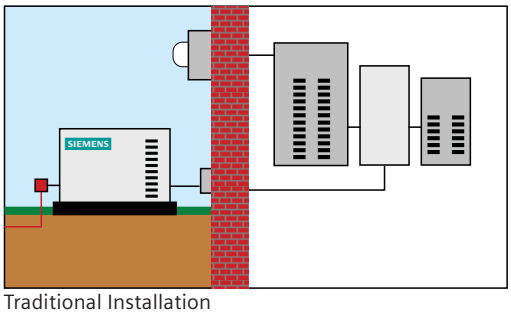
Catalog no.
ECSBPK01 (mechanical interlock for manual or portable generation installation)
GENTFRSWITCH (auto transfer switch for automatic standby generation installation)

Automatic Transfer Switch features:

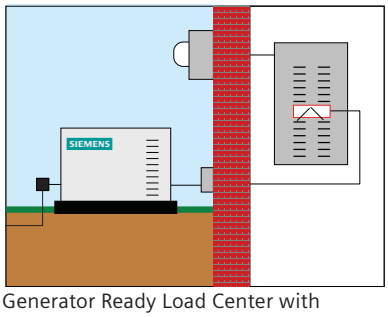
- UL Listed
- Operates automatically when connected to generator
- Transfers load from utility to generator and back to utility
- Includes: Q215 and Q2125S needed for installation

Features:

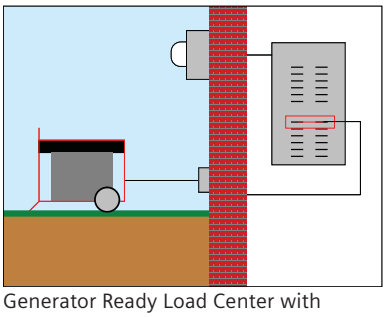
- NEMA 3R / Indoor Type 1
- 225A max rated
- Flush or surface mounting
- Fits between standard stud centers
- Tin plated copper bus bars
- 22 kAIC rated
- 120/240V, 1 Phase
- Main lug – convertible to main breaker with addition of MBK150A, MBK200A, or MBK225A
- Installation of transfer mechanism can be performed at time of generator installation



Traditional Installation



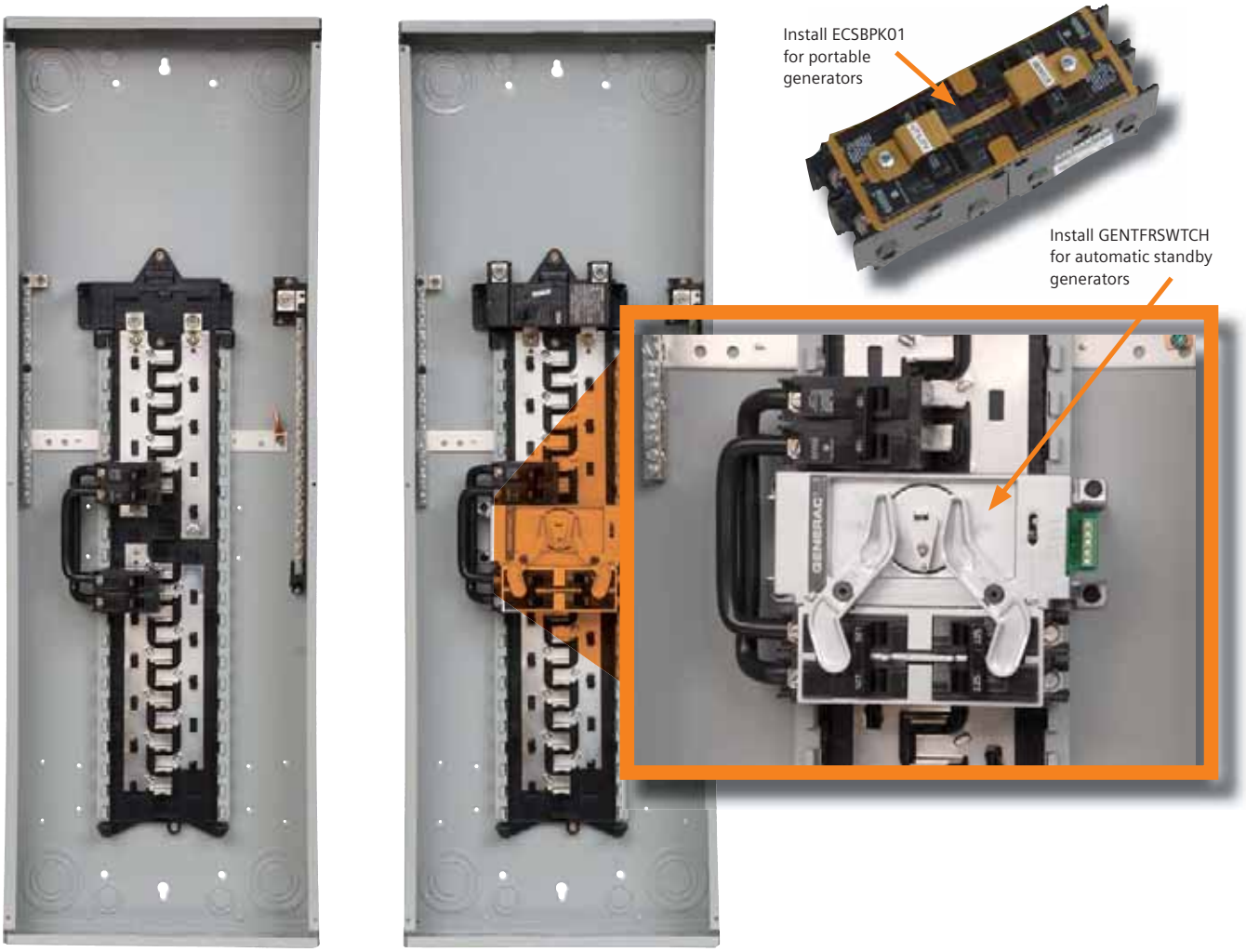
Generator Ready Load Center with Automatic Standby generator installation


Generator Ready Load Center with Portable Generator installation

Generator Ready Load Center (cont.)

200A Main Breaker										
			Indoor enclosure - NEMA Type 1				Outdoor enclosure - NEMA Type 3R			
				Dimensions (inches)				Dimensions (inches)		
Brand	One inch spaces*	Max circuits*	Catalog number	Height	Width	Depth	Catalog number	Height	Width	Depth
Siemens	30	42	**G3042B1200GEN**	42.00	14.25	4.00	W3042B1200GEN	42.00	14.63	4.00
Murray	30	42	**LC3042B1200GEN**	42.00	14.25	4.00	LW3042B1200GEN	42.00	14.63	4.00
225A Main Lug										
			Indoor enclosure - NEMA Type 1				Outdoor enclosure - NEMA Type 3R			
				Dimensions (inches)				Dimensions (inches)		
Brand	One inch spaces*	Max circuits*	Catalog number	Height	Width	Depth	Catalog number	Height	Width	Depth
Siemens	30	42	**G3042L1225GEN**	42.00	14.25	4.00	W3042L1225GEN	42.00	14.63	4.00
Murray	30	42	**LC3042L1225GEN**	42.00	14.25	4.00	LW3042L1225GEN	42.00	14.63	4.00

*2 spaces & 2 circuits are reserved for standby generator installation.



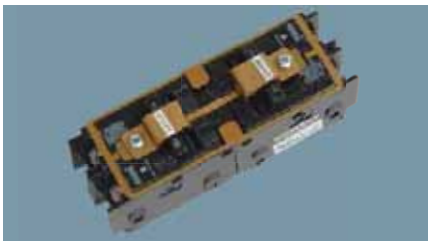
G3042L1225GEN

Portable generators

1.8, 3.2 & 5.5, 6.5, 8, 15, 17.5 kW

Features and ratings

- Ideal for residential emergency and job-site power
- Gasoline powered, OHV engine
- Include handles and wheels for easy movement
- Hour meter included
- Large variety of outlets
- Low noise muffler
- 2 year warranty
- Easily integrated into home electrical systems with Siemens breaker interlock kits (pictured below)



	PG0018	PG0032	PG0055	PG0065	PG0080E①	PG015	PG017
Rated Power	1.8 kW	3.2 kW	5.5 kW	6.5 kW	8 kW	15 kW	17.5 kW
Surge	2.05 kW	3.75 kW	6.875 kW	8 kW	10 kW	22.5 kW	26.2 kW
Rated Amps @ 60Hz 120/240, 1Ø, 1.0 pf	15	27.1	22.9	27.1	33.3	62.5	73
Engine RPM	3600	3600	3600	3600	3600	3600	3600
Fuel Capacity (gallons)	4	4	6.6	6.6	8	16	16
Dimensions (inches)	23.5 x 17 x 17.5	25 x 21 x 19.5	34 x 26.5 x 27.5	34 x 27 x 28	34 x 27 x 28	39 x 31 x 49	39 x 31 x 49
Weight(lbs)	79	91	180	172	192	450	475

① Manual Electric Starter

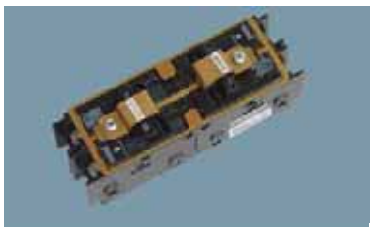
Portable Accessories:

- 5715 - Lifting Beam Kit; 6.5 kW & 8.0 kW

Refer to page 21 for Portable Maintenance Kits

Manual Transfer Interlock Kits

Convert load centers or meter combinations into standby power panels



Standard features

- UL listed for use in most Siemens load centers and meter combinations
- Suitable for use with optional standby systems in accordance with article 702 of the National Electric Code
- Corrosion resistant finish
- Easy assembly requiring no modifications to the load center or meter combination
- Remains attached to the main breakers when load center cover

Panels in which the bussing or wire forms from the meter socket land on main lugs are not acceptable for use in standby systems because turning the main breaker to "OFF" does not prevent feedback to the utility power lines. Examples of such panels include catalog numbers that start with the following letters.

MC0606L1200*

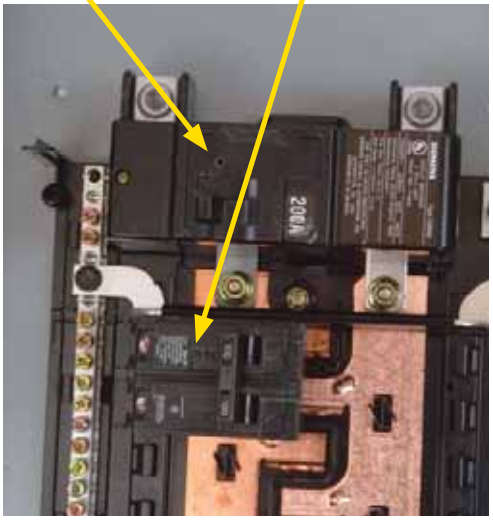
MM0406L1*

MC1212L1200*

Wire forms or bussing

Utility main breaker

Standby power main breaker



To activate standby power the utility main breaker must be in the "OFF" position to prevent dangerous feedback between the power sources.

Acceptable usage of Interlock Kits by load center/meter combination catalog numbers

Siemens Outdoor Load Centers	
W0816B1200CT	3
W0816L1200CT	1 2 3 5 7
W0816ML1125CU	1 2
W1212L1125CU	1 2 4
W1224B1100CU	4
W1224L1125CU	1 2 4
W1224L1200CU	1 2 3 5 7
W1224L1225CU	1 2 3 5 7
W1624B1100CU	4
W1624L1125CU	1 2 4
W2020B1100CU	4
W2030L1150CU	1 2 3 5 7
W2040B1200CU	3
W2040L1200CU	1 2 3 5 7
W3040B1200CU	3
W3040L1125CU	1 2 4
W3040L1200CU	1 2 3 5 7
W4040B1200CU	3
W4040L1200CU	1 2 3 5 7
W4242B1225CU	3
W4242L1225CU	1 2 3 5 7
WXXXMLXXXX	1 2 5 7 * *
WXXXXMBXXXX	1 2 5 7 * *

Siemens Indoor Load Centers	
E0816ML1125*	1 2
E1020MB1100FCGP	1 2
E1224ML1100*	1 2
G1212L1125*	1 2 4
G1224B1100*	4
G1224L1125*	1 2 4
G1224L1200CU	1 2 3 5 7
G1624B1100*	4
G1624L1125*	1 2 4
G1630B1150	3
G2020B1100*	4
G2020L1125*	1 2 4
G2030B1150*	3
G2030L1125CUSG	1 2 4
G2030L1150*	1 2 3 5 7
G2040B1200*	3
G2040L1200*	1 2 3 5 7
G2424B1100CU	4
G2424B1125	4
G2424L1125	1 2 4
G2430B1150	3
G2430L1125CUSG	1 2 4
G2440B1200	3
G2440L1125CU	1 2 4
G2440L1200*	1 2 3 5 7
G3030B1100CU	4
G3030B1150*	3
G3030L1200*	1 2 3 5 7
G3040B1200*	3
G3040L1125CU	1 2 4
G3040L1200*	1 2 3 5 7
G4040B1200*	3
G4040L1125CU	1 2 4
G4040L1200*	1 2 3 5 7
G4242B1225CU	3
G4242L1225CU	1 2 3 5 7
GXXXXMLXXXX	1 2 5 7 * *
GXXXXMBXXXX	1 2 5 7 * *

Siemens Meter Combinations	
MC0816B1150RTH	5 7
MC0816B1150T	5 7
MC0816B1150TH	5 7
MC0816B1200FCTM	2
MC0816B1200RT	5 7
MC0816B1200RTB	5 7
MC0816B1200RTH	5 7
MC0816B1200SCTM	2
MC0816B1200T	7
MC0816B1200TH	5 7
MC0816B1350RLTM	5 7
MC0816B1400RLTM	5 7
MC1224B1100FEC	2
MC1224B1100SEC	2
MC1224B1125	1 2
MC1224B1125FEC	2
MC1224B1125SEC	2
MC1632B1100SEC	2
MC1632B1125FEC	2
MC2040B1150	5 7
MC2040B1200	5 7
MC2040B1200R	5 7
MC2442B1200FEC	2
MC2442B1200SEC	2
MC3040B1200SECW	5 7
MC3042B1200FED	3
MC3042B1200SED	3
MC3042B1225FED	3
MC3042B1225SED	3
MC4040B1200SECW	5 7
MC0816B1200RJBT	8
MC0816B1150RJBT	8
MC0816B1200RCT	8
MC0816B1150RCT	8
MC0816B1200CT	8
MC0816B1150CT	8
MC2040B1150RCT	9
MC2040B1150CT	9
MC2040B1200RCT	9
MC2040B1200CT	9

Numbers 1 through 9 in these tables represent the last digit in each interlock kit catalog number. Example: 1 = ECSBPK01

When used in horizontal positions as typical in most load centers, ECSBPK07 is recommended for use only with QNR type circuit breakers.

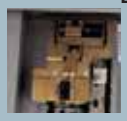
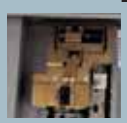
Standby power interlock kits are not intended for use with AFCI, GFCI, 3-pole or 1/2" frame circuit breakers and 4 space, 125 amp load centers.

* Denotes a wild card that could be any letter or multiple letters.

**Siemens type EQ load centers using a "4-pole" main breaker do not have a kit available to interlock this main to branch circuits. Branch circuit positions can be interlocked using the indicated kits.

Manual transfer interlock kits

Prevents dangerous feedback between two sources of power

Catalog number	Usage Information	Utility main breaker types	Standby main breaker types	Interlock number
ECSBPK01	For use on load centers or meter combinations that will accept 2-pole circuit breakers opposite one another as shown.	QP, QPH, HQPH	QP, QPH, HQPH	1
ECSBPK02	For use on load centers or meter combinations that will accept 2- or 4-pole next to a 2-pole circuit breaker side by side as shown.	QP, QPH, HQPH	QP, QPH, HQPH	2
ECSBPK03	For use on UltimateTM and Rock Solid load centers, 150 amp and higher, to connect the main breaker to a 2-pole circuit breaker.	MBK150A, MBK200A, OR MBK225A	QP, QPH, HQPH	3
ECSBPK04	For use on Ultimate and Rock Solid load centers, 125 amp and lower, to connect the main breaker to a 2-pole circuit breaker.	MBK100A or MBK125A	QP, QPH, HQPH	4
ECSBPK05	For use on load centers or meter meter combinations that will accept a QNR (MD-TR) frame circuit breaker next to a 2-pole circuit breaker as shown.	QNR, QNRH, HQNR	QP, QPH, HQPH	5
ECSBPK06	For use on load centers or meter combinations that will accept a QN (MD-T) frame circuit breaker next to a 2-pole circuit breaker as shown.	QN, QNH, HQN	QP, QPH, HQPH	6
ECSBPK07	For use on load centers or meter combinations that will accept two QNR (MD--TR) circuit breakers side by side as shown OR will accept two QN (MD--T) circuit breakers side by side as shown.	QNR, QNRH, HQNR, QN, QNH, HQN	QNR, QNRH, HQNR QN, QNH, HQN	7
 ECSBPK08	For use on 8 space, over/under, OH/UG feed meter combinations as shown. Limited application to specific catalog numbers.	QPP, QPPH	QP, QPH, HQPH	8
 ECSBPK09	For use on 20 space, over/under, OH/UG feed meter combinations as shown. Limited application to specific catalog numbers.	QPP, QPPH	QP, QPH, HQPH	9

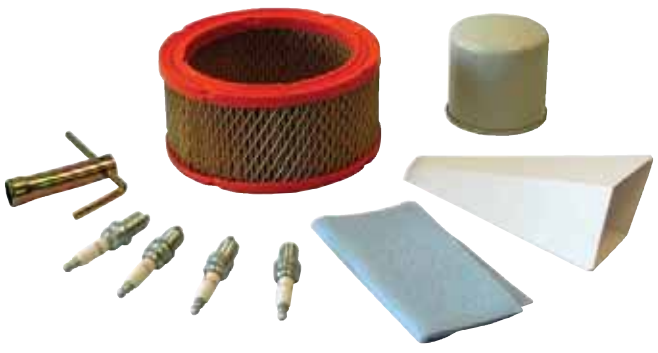
Standby generator ratings / maintenance kits

kW① rating	Rated amps② 120/240 1Ø, 1.0 pf	120/208 3Ø, 0.8 pf	120/240 3Ø, 0.8 pf	277/480 3Ø, 0.8 pf	Engine RPM at full load	Engine RPM at exercise	Natural gas fuel consumption (ft^3 / hr)	Liquid propane vapor consumption (gal / hr)	A at 7 ft. dBA Sound level at normal load	Sound level at exercise
8	35	-	-	-	3600	3600	139	1.68	62	62
10	45	-	-	-	3600	3600	156	1.93	63	63
14	60	-	-	-	3600	3600	220	2.30	66	66
17	65	-	-	-	3600	3600	261	2.57	66	60
20	83	-	-	-	3600	2400	294	2.90	66	60
22	92	76	65	-	1800	1400	255	2.70	70	61
25	104	87	75	-	3600	1800	437	4.81	76	63
27	104	87	79	-	1800	1400	359	4.10	70	61
30	125	104	89	-	3600	1800	437	5.30	75	62
36	187	125	108	54	1800	1400	503	5.5	64	58
45	188	156	135	68	3600	1800	720	7.86	75	63
48	200	166	145	144	1800	1400	661	7.20	65	60
60	250	208	181	180	3600	1800	862	9.00	72	65
70	292	243	210	105	1800	1400	1020	11.17	65	61
80	333	278	241	120	3600	1800	1154	12.78	74	64
100	417	300	301	347	3600	1800	1260	13.80	72	61
130	542	451	390	195	3600	1800	1786	19.56	74	61
150	625	520	450	226	3600	1800	2061	22.57	79	66

① kW rating is based on LPV fuel and may be derated for natural gas.
② For devices with two values on top of each other, the value on top is for liquid propane vapor.

Maintenance Kits

Just like an engine in an automobile, generator engines require routine maintenance. Service kits, which include oil and air filters, are available and are selected based on engine size. Touch up paint is also provided to help cover minor scratches.



Oil and Air Filter Kit	
Catalog no.	Usage
GENMKIT10	8 kW, 410cc kit
GENMKIT2	10 kW, 530cc kit
GENMKIT3	14,17 kW, 760/990cc kit
GENMKIT11	20 kW 990cc kit
GENMKIT5	25, 30 kW, 1.6L
GENMKIT12	22, 27, 48 kW. 2.4L
GENMKIT13	36, 60 kW, 2.4L
GENMKIT6	48 kW, 4.2L
GENMKIT8	70, 100, 130, 150 kW
GENMKIT14	80 kW, 4.6L
PORTMKIT1	Portable 15, 17.5 kW
PORTMKIT2	Portable 5 kW, 6.5 kW
PORTMKIT3	Portable 8 kW

Accessories

DLM load control module
The DLM Load Control Module is a 50 amp contact housed in a NEMA 3R enclosure for indoor and outdoor installation applications. Through the use of the DLM Modules in conjunction with any of the 100-400 amp single phase Nexus Smart SL Type Switches, household or business loads can be intelligently managed enabling the use of a smaller, more efficient generator system. Up to four DLM Modules can be used with a single SL type switch.
Catalog no. 5937

Wireless Generator Monitoring Kit
The Wireless Generator Monitoring System provides remote monitoring capability for convenient indoor observation. By adding this item, a generator owner can observe generator function, set certain operation parameters and receive maintenance reminders.

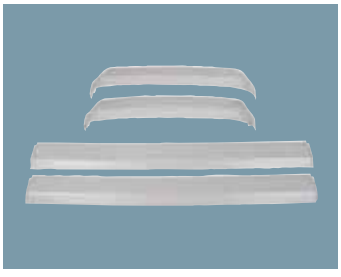
Advanced Wireless Remote in Home Monitor
Catalog No. 5951

Advanced Adapter Kit (use with 5951 Advanced Wireless Remote in Home Monitor on Liquid Cooled units 22 kW and above)
Catalog No. 5959

Standard Wireless Remote in Home Monitor
Catalog no. 5928

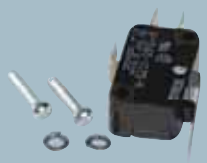
Standard Adapter Kit (use with 5928 Standard Wireless Remote in Home Monitor on Liquid Cooled units 22 kW and above)
Catalog no. 5958

Generator Transport Cart
The Generator Transport Cart is designed to allow a single individual to move and position any of the air-cooled generators without the need for additional people or equipment. By attaching the cart to the generator through the lifting holes, the generator is lifted from the pallet by leverage and is easily wheeled to the appropriate location for final setting.
Catalog no. GENCART



Pad Skirt for Air Cooled Generators
The pad skirt snaps together around the bottom of the new air cooled generators. This offers a sleek, contoured appearance as well as offering protection from rodents and insects by covering the lifting holes located in the base. Available in grey, the pad skirt fits air-cooled generators manufactured after 4/2008.
Catalog no. 5666

Accessories

Catalog number	Description	
Accessories		
5819	26R Battery	26R Battery
5465	Remote Annunciator Surface Mount Without Relays	
5466	Remote Relay Panel Surface Mount Without LEDs	
5464	Remote Annunciator Panel Surface Mount 8 Relay	
5621	Auxiliary Transfer Switch Contact	 Auxiliary transfer switch contact
GENPAINT	Gray Touch Up Paint for 2007 units	
GENPAINT2	Generator Spray Paint Gray Textured	
GENSHELL2	Display shell, gray color	Touch up paint
Cold Weather Kits		
5947	Cold Weather Kit for 760, 992 & 999cc (includes battery wrap and crankcase heater)	Battery warmer
5948	Cold Weather Kit for 410 & 530cc (includes battery wrap and crankcase heater)	
5629	Cold Weather Kit for 1.6L engine (battery warmer only)	
5630	Cold Weather Kit for 2.4L engine (battery warmer only)	
5631	Cold Weather Kit for 4.2L engine (battery warmer only)	
5632	Cold Weather Kit for 3.0, 4.6 & 6.8L Direct Drive Units (battery warmer only)	
5633	Cold Weather Kit for 6.8L, Gear Drive Units (battery warmer only)	
5863	Cold Weather Kit for 410cc or 530cc engine (Crankcase pad warmer only)	
5864	Cold Weather Kit for 760cc, 990cc, or 999cc engine (Crankcase pad warmer only)	
Block Heaters		
5615	Block Heater 1.6L 25 kW & 30 kW	Block heater
5616	Block Heater 2.4L 22 kW, 27 kW, 36 kW, 45 kW & 60 kW	
5618	Block Heater 4.2L 48 kW	
5617	Block Heater 2.4L 36 kW & 60 kW	
5619	Block Heater 4.6L 80 kW	
5620	Block Heater 6.8L 70 kW, 100 kW, 130 kW & 150 kW	
5667	Block Heater 6.8L 150 kW	

Notes

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